

Title (en)  
WATER-ABSORBENT CELLULAR CROSSLINKED HYDROGEL POLYMERS

Title (de)  
WASSERABSORBIERENDE, SCHAUMFÖRMIGE, VERNETZTE HYDROGEL-POLYMERE

Title (fr)  
POLYMERES HYDROGELS ABSORBANT L'EAU, EN MOUSSE, RETICULES

Publication  
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Application  
**EP 96934813 A 19961025**

Priority  
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Abstract (en)  
[origin: DE19540951A1] The invention concerns water-absorbent cellular crosslinked-polymer materials produced by (I) foaming a polymerizable aqueous mixture containing: (a) acid-group-containing monoethylenically unsaturated monomers which have been neutralized to at least 50 mol %; (b) optionally, other monoethylenically unsaturated monomers; (c) crosslinking agents; (d) initiators; (e) 0.1 to 20 % by wt. of at least one surfactant; (f) optionally, at least one solubilizer and (g) optionally, thickeners, foam stabilizers, polymerization-control agents, fillers and/or cell-nucleation agents, the foaming being carried out by dispersing throughout the mixture fine bubbles of a gas which is inert to radicals, and (II) polymerizing the foamed mixture to form a cellular hydrogel and adjusting the water content of the cellular hydrogel to 1 to 45 % by wt. The invention also concerns methods of producing such polymer materials and their use in personal-hygiene articles used to absorb body fluids and in bandage material used to cover injuries.

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**C08J 9/30**; **C08L 33/02**; **A61L 15/00**

IPC 8 full level  
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